

Open Science and Information Quality across ESIP Tuesday, January 24 • 1:30pm - 3:00pm

More info & slides on Sched Session Page: <https://sched.co/1EwXK>

Attendance & Check in

Add your Name / affiliation / pronouns / location / social media to a bullet

- Mark Parsons / NASA/UAH / he/him / Boulder, CO / @chutneyboy
- Cynthia Hall / NASA TOPS / she/her / Charleston, SC / @cyndibughall
- Jenny Hewson / NASA ESDIS / she/her / Salt Lake City, UT
- H. K. "Rama" Ramapriyan/SSAI & NASA ESDIS/he, him, his/Camarillo, CA
- Ge Peng /UA Huntsville/MSFC IMPACT/Huntsville, AL.
- Daniel Segessenman / George Mason University / Fairfax, VA
- Ryan Berkheimer/NOAA/Asheville, NC
- Karen Moe / NASA Retired/ she/her / Cheverly, MD
- Zhong Liu/NASA GES DISC/Greenbelt, MD
- Ruth Duerr / Ronin Institute / she/her / Westminster CO
- Ryan McGranaghan / NASA JPL / he/him / Washington, DC / <https://www.originspodcast.co/> & @AeroSciengineer
- Bob Downs / SEDAC & ESCO / he, him / rdowns@ciesin.columbia.edu
- Morgan Wofford / University of Michigan / she/her / Ann Arbor, MI / @Morgan_Wofford1
- Dave Jones / StormCenter Communications / he/him / Annapolis, MD / @StormCenter410
- .Ross Bagwell / SSAI / NASA ESDIS / Olney, MD
- Ed Armstrong, NASA JPL, Pasadena, CA
- Susan Shingledecker, ESIP / She|Her/ Severna Park, MD/ @sshingledecker
- Qian Huang / ETSU / she/her / Columbia, SC
- Colleen Rosales / OpenAQ & UC Davis / @OpenAQ
- Matt Jones / NCEAS & DataONE at UC Santa Barbara / @metamattj
- Doug Fils / Ronin
- Zachary Robbins/he/him/ Community Resilience Cluster.
- Colin Smith / Environmental Data Initiative at University of Wisconsin-Madison
- Steve Young / EPA (retired), Arlington VA USA
- Irina Gerasimov / NASA GES DISC / Greenbelt, MD
- Dave Vieglais, University of Kansas
- Stephen Haddad / UK Met Office / Exeter, UK
- Tim Bailey / Watershed Research and Training Center / he/him / Eureka CA
- Emily Robles / Lawrence Berkeley Lab & UC Berkeley / she/her / San Francisco, CA
- Zoe Dilles / UNC Chapel Hill / she/her / Chapel Hill, NC
- Douglas Rao / NCICS|NOAA NCEI / he|him / Asheville, NC
- Andy Barrett / National Snow and Ice Data Center, Univ. Colorado Boulder / he/him / Denver CO

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- Gary Berg-Cross/Ontolog Forum/Potomac MD
- David Moroni / JPL / Pasadena, CA
- Danie Kinkade (she/her) / BCO-DMO, WHOI / Woods Hole, MA
- Emanuel Soeding / GEOMAR / Kiel, Germany
- Teddie Gelabert / she-her/ NASA ESDS~SSAI / Greenbelt, MD
- Stephan Klene / SSAI NASA ESDIS/ he/him / Herndon, VA
- Mathew Biddle / NOAA-IOOS / he/him / Columbia, MD
- Denise Hills / she/her / Advanced Resources International / Tuscaloosa, AL
- Alan Yang / SIO/ San Diego, CA
- Nancy Ritchey/ NOAA/ Asheville, NC

Agenda [Slides](#)

- Welcome and logistics – Mark Parsons (2 min)
- Introduction – Introduce the goals of the session. Describe how the OSC defines open science. Present a high-level review of past work, and how this session can inform future work. – Jenny Hewson and Cyndi Hall (5 min)
- Information Quality and Open Science – [An introduction to ESIP Information Quality Cluster](#) – Ge Peng, Zhong Liu & Other IQC Co-Chairs (10 min)
- Presentations from other clusters addressing 1) what open science activities they are currently doing, 2) what information quality looks like in their context, and 3) what open science needs or gaps they have identified for their communities, especially in the realm of information quality. (10 min., each)
 - [Community Resilience Cluster](#) – Zachary Robbins, Arika Virapongse and Rupu Gupta
 - Disaster Lifecycle Cluster & Wildfire Cluster – Dave Jones
 - [Air Quality Cluster](#) - Karen Moe, Colleen Rosales
- Break out discussions on how the OSC can foster further communication and collaboration across ESIP on issues of open science and how the IQC can address the quality issues that emerge. (25 min)
 - Brainstorm on a jamboard (~10 min)
 - What info quality attributes are important to your community, especially in terms of how they encourage trust and openness? [indicate community]
 - https://jamboard.google.com/d/1HL8KU7suGJL_ZSe5PRzzKrsPvEe11TBVDy5TgMP2USE/edit?usp=sharing
 - Cluster ideas and identify any commonalities or themes. Are there opportunities for the OS cluster (in collaboration with the IQ cluster) to help facilitate progress? (~10 min)

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- Prepare report out – biggest revelation, major themes, recommendations to OS Cluster, what have you (~5 min)
- Break out reports (10 min)
- Synthesis and next steps – Mark Parsons (5 min)

At session start:

- **Welcome**
 - Orient attendees to tech (Zoom and QiqoChat)
 - Invite attendees to share their name/affiliation/location in the Zoom chat
 - Invite others to take notes in this document (if desired)
 - Assign any other roles needed
- **Community Participation Guidelines Reminder**
 - By participating in this session, you agree to adhere to the ESIP [Community Participation Guidelines](#)
 - Report an Issue: <https://www.integritycounts.ca/org/esip>
- **Goals of this Session**
 - Gain an improved understanding of open-science-related activities and needs across ESIP clusters
 - Gain an improved understanding of how information quality needs vary across cluster communities and how this information can best be shared.
 - Discuss possible plans for developing more information quality guidance that would help advance open science for one or more cluster communities.
 - And discuss plans for further cross-cluster information sharing on issues and activities in open science, e.g., a webinar series, a focused workshop, etc.

Resources for this session (upload to your session [folder](#) and link below)

- Breakout facilitators: Peng, Cyndi, Mark, Jenny, Morgan, Rama, Zhong, Bob, David
- .

Before session close:

- **Capture 3 Takeaways & Shared insights**
 - What did we discover?
 - How can we help each other?
 - What knowledge and resources do we have to share?
 - Important remaining questions?
- **Closing circle**
 - Share any reminders
 - Come to our next Cluster Call?

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- Open Science Cluster: 4th Tuesday of the month from 12pm to 1pm East. [Open Science Cluster - Earth Science Information Partners \(ESIP\) \(esipfed.org\)](#)
- Shout-outs & thanks
- Requests for peer assists

5 ways to stay involved with ESIP

- Join the conversations on our [ESIP Slack Channel](#) and say hello on #general.
- Keep up with the latest from in and around ESIP by signing up for the [ESIP Update](#) or the mailing list of this group.
- Share your feedback, questions, and suggestions with our Twitter community [@esipfed](#) and [#esipfed](#).
- Hop on an [ESIP Telecon](#) that interests you - no need to RSVP!
- At this meeting, check out the Research Showcase Poster and Demo Gallery.

Feedback

Please take a moment to share your thoughts on this session in Sched by going to the Sched session page linked at the top of this document.

Paste in Zoom Chat notes that you would like to save here

The Open Science Cluster could consider presenting at AMS next January (Baltimore) on best practices from ESIP for more inclusive data services.

13:49:40 From Zhong Liu to Everyone:

IQC email list: <https://lists.esipfed.org/mailman/listinfo/Esip-infoquality>

13:51:10 From Susan Shingledecker, ESIP (She|Her) to Everyone:

Great photo!!

14:00:46 From Ryan McGranaghan (he/him) to Everyone:

Thanks for the talk @Zachary - I missed the link to the Wolff reference. Could you share?

14:02:47 From Zachary Robbins2 to Everyone:

<https://openjournals.uwaterloo.ca/index.php/JoCI/article/view/3275/4298>

14:04:02 From Ryan McGranaghan (he/him) to Everyone:

Found it: Wolff, A., Gooch, D., Montaner, J. J. C., Rashid, U., and Kortuem, G. (2016). Creating an understanding of data literacy for a data-driven society. *J. Commun. Informatics* 12, 3. doi:

10.15353/joci.v12i3.3275

14:08:53 From Susan Shingledecker, ESIP (She|Her) to Everyone:

Good point on language and how that impact what is open to whom

14:11:32 From douglasrao to Everyone:

Related to the language used to communicate the information and risk -

https://www.nytimes.com/2023/01/18/science/weather-forecasts-language.html?unlocked_article_code=uWigcGC7aYH009fT5bMFu9XePTb32oxUTJKIEkzWLLr4ZeuQBRTvZHorcuf8v8KGRU-dUy1I0HAo0suCz_IMi3eKX-o5w2W70QryPxMICFAeFyw9I2UwROaUomzUjGeFy0yUISt4LVE0pUtj4MzoXSudQP3wXYOLNar2GDDhu3Diud464JDes4IEdxh-zXCiSpW-IID1k0H-Th7bkj1N8SL361fMBzcrzT26pyvvsy0C31G271tIsM5AEWtkGQ5DpBjQaxXUBu_ma80Kt2IMiu99wd_7YAqx6YK-RAx5XThlkjWllj_LyT1Px

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wXpGQOB390KJHgrvY6apRF-G9WrHFEGOXKm&smid=share-url (this should be accessible to people don't have NYT subscription)

14:11:50 From Susan Shingledecker, ESIP (She|Her) to Everyone:

Reacted to "Related to the langu..." with ❤️

14:13:02 From Mark Parsons to Everyone:

Reacted to "Related to the langu..." with ❤️

14:14:35 From Dave Jones dave@stormcenter.com to Everyone:

The Open Science Cluster could consider presenting at AMS next January (Baltimore) on best practices from ESIP for more inclusive data services.

14:18:39 From Cynthia Hall to Everyone:

Reacted to "The Open Science C..." with 👍

14:19:15 From Denise Hills to Everyone:

Reacted to "Related to the langu..." with ❤️

14:20:42 From Samapriya Roy to Everyone:

does anyone else get a coming soon page when you go to openaq and click explore data maybe I am missing something

14:22:29 From Mark Parsons to Everyone:

https://jamboard.google.com/d/1HL8KU7suGJL_ZSe5PRzzKrsPvEe11TBVDy5TgMP2USE/viewer?f=0

14:22:32 From rduerr to Everyone:

Having looked at the data on openaq I was surprised at how sparse data in the Denver metro area is! Lot's of PM2.5 but not so much for other pollutants.

14:23:07 From rduerr to Everyone:

And this is an area which theoretically has lots of air quality data....

14:23:10 From Colleen Rosales (OpenAQ) to Everyone:

@samapriya -- yes, it's under construction as of this moment, but we are releasing the brand new tool this week!

14:24:29 From Mathew Biddle (NOAA/IOOS) to Everyone:

https://jamboard.google.com/d/1HL8KU7suGJL_ZSe5PRzzKrsPvEe11TBVDy5TgMP2USE/viewer?f=1

14:28:57 From Mathew Biddle (NOAA/IOOS) to Everyone:

Hi neighbor!

14:29:25 From metamattj to Everyone:

Hey!

14:29:35 From Mathew Biddle (NOAA/IOOS) to Everyone:

<https://buoybay.noaa.gov/locations/annapolis>

14:43:41 From metamattj to Everyone:

matt, do you have a link to those NOAA PDFs?

14:44:54 From Mathew Biddle (NOAA/IOOS) to Everyone:

yeah

14:47:29 From Ryan McGranaghan (he/him) to Everyone:

Important note about trust (we talked about it, too): Trust requires a long time to build - can we (should we) attempt to accelerate that?

14:48:01 From Samapriya Roy to Everyone:

And is trust scale dependent ? local vs global concepts of trust

14:48:20 From metamattj to Everyone:

Thanks @Mathew

14:48:26 From Mark Parsons to Everyone:

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Indeed Ryan

14:48:50 From Ryan McGranaghan (he/him) to Everyone:

And is trust scale dependent ? local vs global concepts of trust

700

14:49:13 From Denise Hills to Everyone:

Replying to "Important note about..."

Sometimes you absolutely can't accelerate the process, particularly if trust has been broken in the past.

14:49:20 From Denise Hills to Everyone:

Reacted to "And is trust scale d..." with 700

14:49:27 From Dan Segessenman (ESIP Fellow) to Everyone:

Sounded like a good summary to me!

14:50:12 From Cynthia Hall to Everyone:

Reacted to "And is trust scale..." with 700

14:50:21 From Cynthia Hall to Everyone:

Reacted to "Sometimes you abso..." with 700

14:52:19 From Steve Young to Everyone:

We see all too many cases of people cherrypicking data and then asserting conclusions -- "knowledge"

14:52:31 From Denise Hills to Everyone:

Reacted to "We see all too many ..." with 700

14:52:33 From rduerr to Everyone:

Reacted to "We see all too many ..." with 700

14:52:38 From Karen Moe (NASA Retired) to Everyone:

Reacted to "We see all too many ..." with 700

14:52:44 From douglasrao to Everyone:

Replying to "Important note about..."

Also, trust depends on the context - people may trust the same information to different level depends on the context

14:53:31 From Colleen Rosales (OpenAQ) to Everyone:

Replying to "Important note about..."

Good point @douglasrao

14:53:58 From douglasrao to Everyone:

NSF Open Knowledge Network Roadmap -

https://nsf-gov-resources.nsf.gov/2022-09/OKN%20Roadmap%20-%20Report_v03.pdf

14:56:09 From metamattj to Everyone:

Reacted to "We see all too many ..." with 700

15:01:20 From Jenny Hewson NASA/ESDIS to Everyone:

Open Science Cluster: https://wiki.esipfed.org/Open_Science_Cluster

15:01:27 From Dave Jones dave@stormcenter.com to Everyone:

The Open Science Cluster could put together a 'statement' about open science that could be passed around the data enterprise...and build awareness of the cluster. :)

15:01:34 From Colleen Rosales (OpenAQ) to Everyone:

Reacted to "The Open Science Clu..." with 👍

15:01:37 From Zachary Robbins2 to Everyone:

Thank you organizers!

15:01:47 From Ed Armstrong to Everyone:

Thanks !

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15:01:49 From David Moroni to Everyone:

How do we sign up for the OSS mailing list?

15:02:02 From Colleen Rosales (OpenAQ) to Everyone:

Thank you so much--hope to be involved more!